

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A packaging apparatus that manufactures a package wherein foodstuff article to be packaged and an inert gas are sealed in a packaging material, comprising:

an introducing unit through which the article to be packaged and the gas are supplied to the packaging material formed in a tubular shape; and

a first sealing mechanism that seals the tubular packaging material to manufacture a package containing the article and the gas;

the packaging apparatus supplying the gas ~~having~~ at a temperature lower than that of the outside air when said first sealing mechanism seals the tubular package material, and configured to adjust the thickness of the sealed package based upon the difference between the temperature of the outside air and the temperature of the gas.

2. (Previously Presented) The packaging apparatus as recited in Claim 1, comprising: a gas temperature modifying unit that changes a temperature of a gas.

3. (Previously Presented) The packaging apparatus as recited in Claim 2, wherein the gas temperature modifying unit changes the temperature of the gas by changing the temperature of the article to be packaged.

4. (Previously Presented) The packaging apparatus as recited in Claim 2, wherein the gas temperature modifying unit changes the temperature of the gas by changing the temperature of the packaging material.

5. (Previously Presented) The packaging apparatus as recited in Claim 2, wherein the gas temperature modifying unit changes the temperature of the gas by changing the temperature of said introducing unit.

6. (Previously Presented) The packaging apparatus as recited in Claim 1, comprising:
a forming unit that tubularly forms the packaging material; and
a gas temperature modifying unit that changes the temperature of the gas by changing the temperature of said forming unit.

7. (Previously Presented) The packaging apparatus as recited in Claim 1, further comprising:
a control unit that is configured to control the temperature and amount of the gas in the sealed package.

8. (Previously Presented) The packaging apparatus as recited in Claim 1, wherein:
the gas sealed inside the sealed package has a temperature lower than that of the outside air.

9. (Previously Presented) The packaging apparatus as recited in Claim 1, further comprising:
a pair of smoothing parts that smoothes a portion of the packaging material to be sealed, and a vicinity thereof.

10. (Previously Presented) The packaging apparatus as recited in Claim 1, further comprising:
a transporting unit that transports the tubular packaging material downward; and
a second sealing unit that seals a longitudinal edge of the tubular packaging material, the longitudinal edge being parallel to the transport direction of the transported flexible packaging material, the direction in which the first sealing mechanism seals the tubular packaging material is perpendicular to the transport direction.

11. (Currently Amended) A packaging method for manufacturing a package wherein a food stuff article to be packaged and an inert gas are sealed in a packaging material, comprising steps of:
providing a tubular packaging material;

supplying the article to be packaged in the tubular packaging material;
supplying the gas in the tubular packaging material;
sealing the tubular packaging material to manufacture a package containing the article and the gas; ~~and~~

changing a temperature of the gas before or after the supplying of the gas in the tubular packaging material, such that the gas has a temperature lower than that of the outside air when the gas and the article to be packaged are sealed; and

adjusting the thickness of the sealed package containing the article and the gas based upon the difference between the temperature of the outside air and the temperature of the gas.

12. (Currently Amended) A packaging system, comprising:

a packaging apparatus that manufactures a package wherein a foodstuff article to be packaged and an inert gas are sealed in a packaging material, the packaging apparatus including

an introducing unit through which the article to be packaged and the gas are supplied to the packaging material formed in a tubular shape; and

a first sealing mechanism that seals the tubular packaging material to produce a package containing the article and the gas; and

a gas temperature modifying unit that changes the temperature of the gas before the gas is sealed in the package;

wherein,

the gas has a temperature lower than that of the outside air when the gas and the article to be packaged are sealed; and

the packaging system is configured to adjust the thickness of the sealed package containing the article and the gas based upon the difference between the temperature of the outside air and the temperature of the gas.

13. (Original) The packaging system as recited in Claim 12, further comprising:

a thermal application unit that performs thermal application processing on the manufactured package.

14. (Original) The packaging system as recited in Claim 13, wherein

said thermal application unit has a thermostatic chamber that warms the package.

15. (Original) The packaging system as recited in Claim 13, wherein
said thermal application unit blows hot air onto the package.

16. (Previously Presented) The packaging system as recited in Claim 13, further
comprising:

a postprocessing checking apparatus that performs postprocessing checking of the
package.

17. (Previously Presented) The packaging system as recited in Claim 16, further
comprising:

a control unit that is configured to control said gas temperature modifying unit based
on detection information produced by said postprocessing checking apparatus.

18. (Previously Presented) The packaging system as recited in Claim 16, further
comprising:

a control unit that is configured to control said thermal application unit based on
detection information produced by said postprocessing checking apparatus.

19. (New) A packaging apparatus that manufactures a package wherein foodstuff
article to be packaged and an inert gas are sealed in a packaging material, comprising:

an introducing unit through which the article to be packaged and the gas are supplied
to the packaging material formed in a tubular shape;

a first sealing mechanism that seals the tubular packaging material to manufacture a
package containing the article and the gas;

an outside air temperature acquisition unit that detects the temperature of the air
outside the sealed package; and

an adjustment unit that sets the temperature of the gas based upon the outside air
temperature detected by the outside air temperature acquisition unit in order to adjust the
thickness of the sealed package.